Comparision of Protein Sequences

```
hbcl-w      MATPASAPDT RALVADFVGY KLRQKGYVCG AGPGEGPAAD PLHQAMRAAG   50
mbcl-w      .....T.... ...A...... .......... .......... ..........
hbcl-y      .....A.... ...E...... .......... .......... ..........
rbcl-y      .....T.... ...A...... .......... .......... ..........

hbcl-w      DEFETRFRRT FSDLAAQLHV TPGSAQQRFT QVSDELFQGG PNWGRLVAFF  100
mbcl-w      .......... .......... .......... .......... ..........
hbcl-y      .......... .......... .......... .......... ..........
rbcl-y      .......... .......... .......... .......... ..........

hbcl-w      VFGAALCAES VNKEMEPLVG QVQEWMVAYL ETRLADWIHS SGGWAEFTAL  150
mbcl-w      .......... .......... ..D.....A. .......... ..........
hbcl-y      .......... .......... ..E.....A. .......... ..........
rbcl-y      .......... .......... ..D.....T. .......... ..........

hbcl-w      YGDGALEEAR RLREGNWASV RTVLTGAVAL GALVTVGAFF ASK         193
mbcl-w      .......... .......... .......... .......... ..........
hbcl-y      .......... .......... .......... .......... ..........
rbcl-y      .......... .......... .......... .......... ..........
```

Comparison of Nucleotide Sequences

Human bcl-w (SEQ ID NO: 6)
Human bcl-y (SEQ ID NO: 2 of the '201 Patent)
Rat bcl-y (SEQ ID NO: 1 of the '201 Patent)

```
hbcl-w  atg gcg acc cca gcc tcg gcc cca gac aca cgg gct ctg gtg gca gac   48
hbcl-y                                                        a
rbcl-y                          a a                     a     t

hbcl-w  ttt gta ggt tat aag ctg agg cag aag ggt tat gtc tgt gga gct ggc   96
hbcl-y
rbcl-y            c                   a

hbcl-w  ccc ggg gag ggc cca gca gct gac ccg ctg cac caa gcc atg cgg gca  144
hbcl-y                                      a
rbcl-y     t        a                   c

hbcl-w  gct gga gat gag ttc gag acc cgc ttc cgg cgc acc ttc tct gat ctg  192
hbcl-y
rbcl-y            c       t                                       c

hbcl-w  gcg gct cag ctg cat gtg acc cca ggc tca gcc cag caa cgc ttc acc  240
hbcl-y                                                    a
rbcl-y     c            a    c

hbcl-w  cag gtc tcc gac gaa ctt ttt caa ggg ggc ccc aac tgg ggc cgc ctt  288
hbcl-y                 t
rbcl-y         t                    c                              t

hbcl-w  gta gcc ttc ttt gtc ttt ggg gct gca ctg tgt gct gag agt gtc aac  336
hbcl-y
rbcl-y     g    a                              c

hbcl-w  aag gag atg gaa cca ctg gtg gga caa gtg cag gag tgg atg gtg gcc  384
hbcl-y
rbcl-y     a    a        g      t                          t          a

hbcl-w  tac ctg gag acg cgg ctg gct gac tgg atc cac agc agt ggg ggc tgg  432
hbcl-y
rbcl-y                  a    c t

hbcl-w  gcg gag ttc aca gct cta tac ggg gac ggg gcc ctg gag gag gcg cgg  480
hbcl-y                                                             a
rbcl-y

hbcl-w  cgt ctg cgg gag ggg aac tgg gca tca gtg agg aca gtg ctg acg ggg  528
hbcl-y
rbcl-y

hbcl-w  gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc  576
hbcl-y
rbcl-y     t
                                                                        583
hbcl-w  aag tgaa
hbcl-y
rbcl-y
```

Comparison of Nucleotide Sequences

Murine bcl-w (SEQ ID NO: 6)
Human bcl-y (SEQ ID NO: 2 of the '201 Patent)
Rat bcl-y (SEQ ID NO: 1 of the '201 Patent)

```
mbcl-w  atg gcg acc cca gcc tca acc cca gac aca cgg gct cta gtg gct gac   48
hbcl-y                    g g                 g      aa
rbcl-y

mbcl-w  ttt gta ggc tat agg ctg agg cag aag ggt tat gtc tgt gga gct ggc   96
hbcl-y           t      a
rbcl-y                  a       a

mbcl-w  cct ggg gaa ggc cca gcc gcc gac ccg ctg cac caa gcc atg cgg gct  144
hbcl-y   c      g          a   t       a                            a
rbcl-y                     a                                       a

mbcl-w  gct gga gac gag ttt gag acc cgt ttc cgc cgc acc ttc tct gac ctg  192
hbcl-y           t       c          c       g                    t
rbcl-y                              c       g

mbcl-w  gcc gct cag cta cac gtg acc cca ggc tca gcc cag caa cgc ttc acc  240
hbcl-y   g          g   t                              a
rbcl-y

mbcl-w  cag gtt tcc gac gaa ctt ttc caa ggg ggc cct aac tgg ggc cgt ctt  288
hbcl-y       c      t           t               c                c
rbcl-y                                          c

mbcl-w  gtg gca ttc ttt gtc ttt ggg gct gcc ctg tgt gct gag agt gtc aac  336
hbcl-y   a   c                          a
rbcl-y

mbcl-w  aaa gaa atg gag cct ttg gtg gga caa gtg cag gat tgg atg gtg gcc  384
hbcl-y   g   g       a   a c                          g                a
rbcl-y                   a

mbcl-w  tac ctg gag aca cgt ctg gct gac tgg atc cac agc agt ggc ggc tgg  432
hbcl-y               g   g                                      g
rbcl-y                   c t                                    g

mbcl-w  gcg gag ttc aca gct cta tac ggg gac ggg gcc ctg gag gag gca cgg  480
hbcl-y                                                          g
rbcl-y

mbcl-w  cgt ctg cgg gag ggg aac tgg gca tca gtg agg aca gtg ctg acg ggg  528
hbcl-y
rbcl-y

mbcl-w  gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc  576
hbcl-y
rbcl-y   t

                                                                        582
mbcl-w  aag tga
hbcl-y
rbcl-y
```